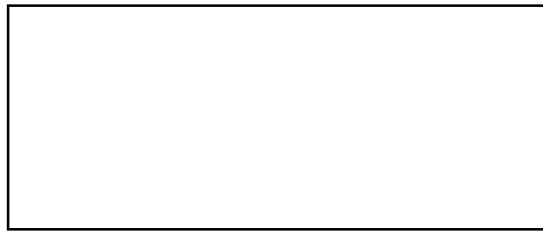
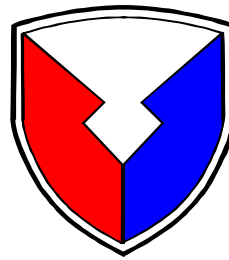
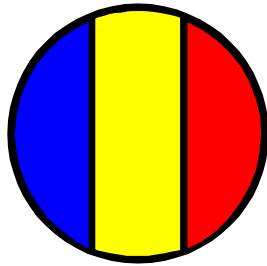


**UNITED STATES ARMY
TRAINING AND DOCTRINE COMMAND
&
ARMY MATERIEL COMMAND**



Technology Demonstration Interests

**PRE-PROPOSAL CONFERENCE
APRIL 17-18, 2000**

**HOLIDAY INN
HAMPTON HOTEL & CONFERENCE CENTER**

Again this year, the AUSA Industry Day will be held the same week as the ACT II Pre-Proposal Conference. These are separate conferences, not to be construed as affiliated, but merely scheduled the same week for convenience of the attendees. The AUSA Industry Day Conference is a non-governmental event organized and hosted by a private organization, the Virginia Peninsula Chapter of AUSA. Neither, this event nor the organization are endorsed by HQ TRADOC or the US Army. A letter of invitation to the AUSA Industry Day Conference is included in the back cover of this pamphlet.

INTRODUCTION

Today, the Army recognizes more than ever the imperative to retain technology superiority as it continues to restructure into a smaller, Force Projection Army for the 21st Century.

The establishment of the Battle Laboratories was a critical step toward achieving this goal. Together with the Army Research Development and Acquisition community, the Battle Labs are streamlining materiel acquisition and providing warfighters with overmatch capabilities.

The Army's Advanced Concepts and Technology II (ACT II) Program provides access for industry participation in this important endeavor. ACT II facilitates Battle Lab experimentation by competitively funding demonstrations of industry's most advanced technologies, prototypes, and non-developmental items with the greatest potential to fulfill warfighting capability requirements.

ACT II is sponsored by the Army Chief of Staff and the Office of the Assistant Secretary of the Army (Acquisition, Logistics, and Technology). The Army Training and Doctrine Command (TRADOC), the Army Materiel Command (AMC) and the Army Research Office (ARO), as the executive agency, collaborate to build ACT II partnerships between the Army, industry, and the academic community.

THE ACT II PROGRAM

The ACT II Program encourages application of commercial technologies, which are mature or nearing maturity, to address immediate Army concerns. The program provides funding to demonstrate the technical feasibility of technologies that, if successful, can either become part of the regular funded Army research and development (R&D) program, be selected for entry into the Army Warfighting Rapid Acquisition Program (WRAP), or transition directly to an end item as a new start or a product improvement. ACT II seeks unconventional approaches to address Army needs; it does not fund established technology base programs. This access to the commercial market is intended to shorten the acquisition cycle and reduce the development cost which, under the conventional acquisition process, often requires long lead times for a research idea to reach the soldier. Because of the small size of ACT II projects - a maximum of \$1.5 million and up to 12 months duration - ACT II generally supports efforts that appear likely to have an important impact on the Army. Cost-sharing between the ACT II Program and the proposing agency and/or interested Army R&D organizations is encouraged but not required.

STREAMLINED ACQUISITION APPROACH

The ACT II Program offers industry relief from the costly and time-consuming burden of proposal preparation by inviting submissions of brief two-page concept papers that detail innovative technology demonstrations. In response to the ACT II Broad Agency Announcement (BAA), these concept papers are to be submitted to the Army Research Office. Concept papers will be evaluated and if the technology is judged highly relevant, based on criteria set forth in the BAA, the offeror will be invited to submit a complete proposal. The Army will select a number of complete proposals for negotiation. The resulting contracts in support of ACT II will be awarded through various Army and Department of Defense procurement offices and will be technically monitored by Laboratories and Research, Development, and Engineering Centers (RDECs) designated by the Army as most appropriate for each project. No concept paper or complete proposal involving or requiring the use of classified material, information or data will be accepted. Resulting contract awards, subject to availability of funds, are expected to be completed in December 2000.

BATTLE LABORATORIES

Air Maneuver Battle Lab

The Air Maneuver Battle Lab, Fort Rucker, Alabama, is responsible for providing overall direction, oversight, and horizontal integration for aviation operations. Its focus is to improve the capability of air maneuver forces to shape the battlespace and set conditions for decisive operations; gain information dominance through the employment of air maneuver forces to perform reconnaissance, conduct counter-reconnaissance, and develop the tactical situation; expand decisive combat capabilities throughout the battlespace by employing simultaneous attack; enhance precision strike operations capabilities of the combined arms and joint force; and capitalize on the inherent mobility advantage of maneuver in the third dimension of the battlespace.

Battle Command Battle Lab

The Battle Command Battle Lab (BCBL), oriented on warfighting initiatives, is seeking and developing solutions to identify Battle Command battle dynamics needs in the areas of doctrine, training, leadership, organization, materiel, and soldier enhancements (DTLOMS). The focus of the BCBL is to provide timely, relevant, and accurate information to commanders and their battle staffs without tethering the commander to a fixed location on the battlefield. Information media include voice, data, and video. Technologies that improve collecting, processing, disseminating, and displaying information for the warfighter are being sought. The BCBL goal is to ensure soldiers have a technology edge on future battlefields. Battle command issues are addressed by a single lab with elements at three locations.

- **Ft. Gordon** is responsible for the technical means of battle command and friendly elements of information operations.
- **Ft. Huachuca** is responsible for direction and oversight for intelligence and electronic warfare and command and control warfare.
- **Ft. Leavenworth** provides overall direction and integration of all activities relating to the “art” of command and information operations.

Together, the three elements are responsible for integrating all TRADOC activity related to the art and science of battle command and information warfare.

Combat Service Support Battle Lab

The Combat Service Support (CSS) Battle Lab, located at Fort Lee, Virginia, is responsible for providing direction, oversight, and horizontal integration for the CSS battlefield dynamic area. The organization is transitioning Army logistics into a CONUS Based Force Projection stance. The top priority is to effectively integrate materiel and distribution management into a seamless distribution system, from factory to foxhole. The CSS community understands in order to sustain Force XXI, there must exist the capability to get the right asset to the right place at the right time, every time. As a result, the lab is focusing efforts on Battlefield Distribution (BD). The objective of BD is to facilitate rapid movement of materiel, under positive control, bypassing routine warehouse/storage functions from the source to the combatant.

The overarching interest of the CSS Battle Lab continues to be technologies that enhance 21st Century support organizations. The focus is on providing low cost communication and automation for the execution of the CSS mission while building the linkages needed for conducting split-based operations from CONUS. Specific needs include a reduction in inventory stockage, reduced life-cycle costs, real time situational awareness, anticipatory maintenance, reduced logistics footprint, and improved force projection operations.

Maneuver Support Battle Lab

The mission of the Maneuver Support Battle Lab at Ft. Leonard Wood, Missouri, is to fully integrate Maneuver Support into Force XXI/Army After Next Combined Arms Operations and Homeland Defense through the planning, execution, and analysis of warfighting experiments and technology demonstrations in order to examine advanced concepts and technology which enhance the Commander's ability to fight and win on the 21st Century battlefield. It is the focal point for Chemical, Military Police, and Engineer experimentation to find solutions to challenges and opportunities for future forces. It works closely with industry, DoD research and development agencies, branch schools and other battle labs to experiment with and provide insights on future force development. The Maneuver Support Battle Lab has a special interest in force protection, terrain data, non-lethal weapons and equipment, and mobility and countermobility support technologies.

Air and Missile Defense Battle Lab

The Air and Missile Defense Battle Lab (AMDBL) is located at Fort Bliss, Texas. The AMDBL mission is to provide the overall direction, oversight, and horizontal integration of Air and Missile Defense Experimentation in support of the requirements generation process. The AMDBL is responsible for all aspects of Air and Missile Defense Experimentation including planning, coordination, resourcing, execution, and post warfighting event analysis. The experiments and demonstrations are conducted in the live, virtual, and constructive environments to allow assessment and evaluation of the military utility for new or revised concepts or technologies to satisfy warfighter needs. The AMDBL provides focus for the future in efforts on the entire Active Defense pillar of Theater Air and Missile Defense and the enabling portion of Battle Management, Command, Control, Communications, Computers, and Intelligence that pertains to the Active Defense. The AMDBL specifically concentrates efforts on identifying and examining Air and Missile Defense technologies that support the Army Vision 2010 and the Army Transformation to the Objective Force; planning, coordinating, and conducting experiments and demonstrations that provide insights and determine Air and Missile Defense DTLOMS solutions; establishing and maintaining a capability to conduct experiments and demonstrations that will allow integration of Air and Missile Defense capabilities into Army and other joint systems; establishing and maintaining an Air and Missile Defense capability to conduct experiments in live, virtual, and constructive operational domains

Depth and Simultaneous Attack Battle Lab

The Depth and Simultaneous Attack Battle Lab, located at Ft. Sill, Oklahoma, is responsible for integrating all TRADOC activities related to conducting simultaneous attack operations by defining requirements to detect and identify enemy forces throughout the depth of the battlefield. As part of this charter, our primary focus is to identify emerging tactical ballistic and cruise missile threats; and, by leveraging the latest technology, assist in the development of weapon systems with the capability to attack at extended ranges while providing target identification, target location, and battle damage assessment to the warfighter in real time.

The depth and simultaneous attack battlefield dynamic envisions defeating enemy forces throughout the battlespace. To this end, our goal is to stun and then rapidly defeat or disarm an opposing force with overwhelming combat power by conducting unilateral and joint precision strikes at the time and place of our choosing. The work being conducted today by the TRADOC Battle Laboratories is crucial for the successful development and implementation of the Force Projection Army of the 21st Century.

Dismounted Battlespace Battle Lab

The Dismounted Battlespace Battle Lab (DBBL), located at the U. S. Army Infantry School, Fort Benning, Georgia, is responsible for integrating the modernization of Army forces operating in the dismounted battlespace on the battlefield. The dismounted battlefield ranges from war and conflict to peace operations, humanitarian assistance, and operations in aid of civil authorities. Battlespace includes all forces and soldiers that are foot mobile (combat, combat support, and combat service support). The battle is fought by Combined Arms Forces regardless of how they were delivered to the close battle area, e.g., Bradley Fighting Vehicle, parachute, helicopter, on foot, etc. Success of the dismounted soldier on the battlefield is dependent upon the ability to generate overmatching combat power against adversaries, either lethal or non-lethal. To achieve this, the soldier must be more lethal, survivable, and sustainable. The soldier must be able to fight and survive in all natural and man-made environments, day or night, and during obscured conditions. The soldier's situational awareness capability will allow the ability to detect threats such as adversaries, mines, booby traps, and chem-bio, before being put at risk; know the disposition/location of fellow soldiers and supporting battlefield systems; and be able to monitor personal physiological status. The soldier's electronic support systems will be digital, miniaturized and integrated. Soldier subsystems will be powered by an array of integrated, distributed and regulated power sources. Weapon systems, characterized by increased acquisition range and precision munitions, will provide overmatching lethality with a higher probability of kill at greater ranges. Precision munitions will reduce collateral damage as will a selection of complimentary non-lethal capabilities. The soldier will have an increased level of ballistic, directed energy, and chem-bio protection. Subsystems will be designed to reduce the soldier's load, providing increased mobility not only within dismounted battlespace but also during airborne, air assault, riverine, or vehicular movement to and in the close battle.

Mounted Maneuver Battlespace Lab

The Mounted Maneuver Battlespace Lab (MMBL), located at Fort Knox, Kentucky, is charged through experimentation to fully develop the ideas, insights, and concepts associated with mounted maneuver and battle command at the Brigade level and below, as they pertain and relate to full dimension operations with today's Force XXI and tomorrow's Interim Brigade Combat Team. This year's focus is on Battle Command Reengineering, Unmanned Ground Vehicles, Unmanned Aerial Vehicles, and the Interim Brigade Combat Team

Space and Missile Defense Battle Lab

The Space and Missile Defense Battle Lab (SMDBL), which is part of the Space and Missile Defense Command, is a split-based operation headquartered in Huntsville, Alabama. The Headquarters, Operations, and Missile Defense Directorates are located in Huntsville and the Space Directorate is located in Colorado Springs, Colorado. SMDBL provides TRADOC and Warfighting Commanders the ability to dynamically infuse innovative Space and Missile Defense capabilities into experiments, exercise and training events. SMDBL is responsible for planning, resourcing, and executing experiments that focus on evaluating space and missile defense warfighting concepts, future operational capabilities and technologies; for providing the synthetic battlefield environment (SBE) to support experimentation and providing analytical capabilities supporting the requirements determination process.

The mission of the SMDBL is to integrate space and missile defense into Army, Joint, and combined operations through the planning, execution, and analysis of warfighting experiments and technology demonstrations in order to examine advanced concepts and technology which enhance the commander's capability to fight and win on the 21st Century battlespace.

THE ADVANCED CONCEPTS AND TECHNOLOGY II (ACT II) BROAD AGENCY ANNOUNCEMENT

The Army intends to issue a Broad Agency Announcement (BAA) for the ACT II Program on 15 March 2000. The BAA will be issued under the provision of paragraph 6.102(d)(2) of the Federal Acquisition Regulation (FAR) which provides for the competitive selection of technology demonstration proposals. Contracts awarded based on responses to this BAA are considered to be the result of full and open competition and in full compliance with the provisions of Public Law 98-369, "The Competition in Contracting Act of 1984."

Concept papers must be received by 4:00 p.m. (EDT) on 23 May 2000. Complete proposals, which are invited based on concept paper evaluation, must be received by 4:00 p.m. (EDT) on 19 July 2000.

Concept papers and complete proposals submitted in response to this BAA shall be for a period of performance not to exceed 12 months. The deliverable(s) shall be provided to the Government during, or no later than, the end of this 12-month performance period. Concept papers and complete proposals submitted shall not exceed a cost of \$1.5M per proposed project. For planning purposes, offerors may anticipate awards in December 2000.

NEW THIS YEAR!

This year, the ACT II Program requires that all offerors submit their concept papers and their proposal forms through an online submission system. Submitting a concept paper requires four simple steps:

- 1. Registration: Each submitting organization must first register themselves through the website. It is expected that different organizations within a large company will register separately. PLEASE only register one point of contact for each distinct organization. If you forget your password, contact the website administrator rather than re-registering.**
- 2. Complete AND SAVE a concept paper form (or your proposal forms).**
- 3. Upload a graphic to help describe your concept (if desired).**
- 4. Print out the concept paper (or proposal) form using your Web Browser, along with the graphic (if any), and submit an original and the required number of copies to the Army Research Office at the address specified in the BAA.**

All written correspondence concerning this BAA shall be forwarded to the following address (See BAA for concept paper and proposal mailing instructions):

U.S. Army Research Office
Department of the Army
ATTN: AMSSB-ACR (DAAD19-00-R-0001)
P.O. Box 12211
Research Triangle Park, North Carolina 27709-2211

The BAA will be available on the Army Research Office – Washington (ARO-W) web site: www.aro.army.mil/arowash/rt/actii.htm. There are no printed copies available for distribution.

This pamphlet is not to be interpreted as the official ACT II Broad Agency Announcement. Every attempt has been made to provide the most accurate data; however, the ACT II BAA, when released on the ARO web site, shall be the official document for proposal preparation and submission information.

**ACT II FY01 PRE-PROPOSAL CONFERENCE
PRELIMINARY AGENDA**

Monday, April 17, 2000

1500 - 2000 REGISTRATION
1800 - 2000 Evening Reception

Tuesday, April 18, 2000

0630 REGISTRATION (continued)

0800 ADMINISTRATIVE REMARKS

0805 OPENING REMARKS - User's Perspective
MG Daniel R. Zanini
Deputy Chief of Staff for Combat Developments
Training and Doctrine Command

0820 OPENING REMARKS - Developer's Perspective
TBD
Deputy Chief of Staff for Research, Development & Acquisition
Army Materiel Command

0835 ACT II PROGRAM OVERVIEW
MAJ Lyndon Wrighten
Director, Army Research Office - Washington

0905 BATTLE LABS OVERVIEW
COL Michael K. Mehaffey
Director, Battle Lab Integration and Technology Directorate

BREAK

1000 SESSION I: Technology Demonstration Topics

1200 LUNCH

1330 SESSION II: Question & Answers with Battle Lab Representatives

GENERAL INFORMATION

The Pre-Proposal Conference will be held at the Holiday Inn, Hampton Hotel & Conference Center, Hampton, Virginia, on April 17-18, 2000.

DIRECTIONS TO THE HOLIDAY INN HAMPTON HOTEL & CONFERENCE CENTER: Located at I-64, exit 263B, (Mercury Blvd.-- Norfolk International Airport, 15 miles; Newport News/Williamsburg International Airport, 7 miles). From I-95, take I-64 East to exit 263B (Mercury Blvd., Hampton Coliseum) bear to your right and Holiday Inn will be located on the right, just before the light. From Norfolk, on I-64 West follow the directions above.

ACCOMMODATIONS: The Holiday Inn is coordinating lodging and all registrations for the conference. (NOTE: For those military/government employees required to go through the Lodging Success Program, arrangements have already been made for a control number. The control number (030100-01) should be annotated on your travel orders.) A special rate of \$76.00, plus tax, has been established at the Holiday Inn. Once lodging capacity is reached at the Holiday Inn, attendees will be referred to overflow accommodations. Whether accommodations are needed or not, attendees should fax their registration form directly to the Holiday Inn Hampton Hotel & Conference Center at (757) 896-3353 to register for the conference and also make and guarantee room reservations. The Holiday Inn will send a confirmation receipt directly to attendees after reservations are made. Attendees should fax their registration forms by April 2, 2000, to take advantage of the Special Group Rate, which will only be honored until this date. After April 2, 2000, reservations will be accepted on a space-available and rate-available basis. You must identify yourself as attending the ACT II Conference in order to take advantage of the special rate. Rates cannot be changed at check-in or checkout for guests who fail to identify their affiliation with the ACT II Conference when booking.

<p>Note: Rooms for the Pre-Proposal Conference have been set aside at the Holiday Inn Hampton Hotel & Conference Center and overflow hotel only as a matter of convenience for the attendees. This is not to be construed as an endorsement of any hotel on the part of the Government or any of its employees.</p>
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CLASSIFICATION: The Pre-Proposal Conference is UNCLASSIFIED. Note taking is authorized during the session presentations. Recording is not authorized. Copies of the briefings and other conference materials will be distributed during registration.

FEES/REGISTRATION: The Holiday Inn is handling **ALL** registration for the conference. The registration fee for the Pre-Proposal Conference is \$45.00 and is not prorated. The fee covers the evening reception, lunch, refreshments and conference support expenses. Registrations must be received at the Holiday Inn by April 2, 2000. The Holiday Inn will mail confirmation receipts within two weeks of making reservations. Please note that registration is limited to the first 500 people. **THERE WILL BE NO WALK-IN REGISTRATIONS ACCEPTED.**

Conference fees and accompanying registration sent by mail must include a check or money order payable to Holiday Inn Hampton or a credit card number, which will be billed upon receipt for the registration fee. Please send registration to:

Holiday Inn, Hampton Hotel & Conference Center
ATTN: ACT II Registration
1815 West Mercury Blvd.
Hampton, VA 23666

REGISTRATION on April 17, 2000 will begin at 3:00 p.m.

REFUNDS: Registrants who cannot attend the ACT II Pre-Proposal Conference must notify the Holiday Inn in writing by April 9, 2000, in order to receive a refund of their **Registration Fee**. To receive a refund for **Hotel Accommodations**, contact the Holiday Inn Hampton within 48 hours prior to your arrival date.

CONFERENCE PROCEEDINGS: Registrants will be issued a Briefing Book during registration containing copies of the briefing charts. If you are unable to attend the Pre-Proposal Conference, remaining copies will be available via hard copy after May 17, 2000. Interested parties may fax a written request to (757) 727-3445 or email lyonsr@monroe.army.mil.

QUESTIONS FOR DRAFT BAA: The conference agenda will allow time on the last day of the conference for interface with the representatives from each Battle Lab. We hope this will give everyone the opportunity to get questions addressed before we conclude. If you have any questions on ACT II related topics you would like to see addressed during the question and answer session, please use the form provided (see last page of brochure). Typing or printing is required. You may fax this form to MAJ Lyons at (757) 727-3445.

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Registration Form
ACT II FY01 Pre-Proposal Conference (Hampton, VA)
April 17-18, 2000

Name

Title

Company

Address

City

State

Zip

Phone

Fax

Email address

MC/Visa/AMEX/Discover Number (via fax): Expiration Date

**Registration Fee: \$45.00 payable
to Holiday Inn.**

***No refund after April 9, 2000**

Registration options:

**a. Fax this form with credit card
information to (757) 896-3353.**

**b. Mail this form with check or
money order to:**

**Holiday Inn, Hampton
ATTN: ACT II Conference
1815 West Mercury Blvd.
Hampton, VA 23666**

___ **Conference only** ___ **Conference & room**

Arrival date _____ **Departure date** _____

TO FY 2000 ACT II Industry Day Attendees

FROM Dick Winter, President AUSA Virginia Peninsula Chapter

SUBJECT Virginia Peninsula Chapter's Eighteenth Annual
AUSA Industry Day

Although TRADOC's FY 2001 ACT II Pre-Proposal Conference and the VPC/AUSA Annual Industry Day, at the Holiday Inn Hotel and Conference Center, are separate and independent events, they are being held back-to-back to give defense industry personnel the opportunity to participate in both events through one visit to the Hampton Roads area.

The VPC/AUSA Annual Industry Day has been very successful over the last 18 years in providing an opportunity for industry representatives to interact with key Fort Monroe and Fort Eustis personnel by hosting a forum that allows a maximum of dialogue between TRADOC and industry. This year the industry representatives will again have the opportunity to interact with key members of the U.S. Joint Forces Command during their presentations and at the evening social events. Having VPC's Industry Day in the Hampton Roads area gives industry representatives an opportunity to discuss issues and ask questions from the action officer level to the TRADOC Commander and DCINC JFCOM on areas that are pertinent to providing soldiers with the best training and equipment possible.

Social mixers, presentations by key Fort Monroe and U.S. Joint Forces Command leaders, interactive panels, enable industry representatives to obtain a better understanding of what TRADOC is seeking to accomplish with force Transformation and U.S. Joint Forces Command's goals for Joint Experimentation. The design for Industry Day provides managers at all levels a program to enhance their understanding of user requirements and key thrusts toward successfully organizing, training, and equipping the future Army.

Industry Day activities will be held at the Holiday Inn Hotel and Convention Center. They begin with a Welcome Reception the evening of 18 April 2000. The Industry Day Program begins at 0800, on 19 April 2000, with an opening address by the DCG TRADOC, LTG Rigby, includes a luncheon with LTG Burnette as the guest speaker, and concludes in the evening with a social mixer and dinner with General John Abrams as the guest speaker. To receive an Industry Day Packet or more information please contact Dick Winter, (757) 262-3403, e-mail dwinter3@csc.com, Jim Touhill, (757) 727-3551, e-mail touhillj@monroe.army.mil, Joe Barto, (757) 727-7951, e-mail jbarto@camber.com, or Tom Devine, (757) 838-3468, e-mail thomas_devine@mail.northgrum.com.

Hope to see you at VPC/AUSA Annual Industry Day 2000!

